



What is Claimed Is

1. An apparatus for automatically detecting a size of a detection object comprising:

5 a detection object whose size is to be detected;

a background panel which is arranged behind said detection object, said background panel having a mark as a standard and being longer than said detection object; and

10 a controller for optically scanning said detection object and said background panel from forth, and automatically detecting the size of said detection object on the basis of a signal obtained by electrically converting reflected light.

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2. An apparatus for automatically detecting a size of a detection object comprising:

a detection object whose size is to be detected;

20 a background panel arranged behind said detection object, said background panel having a mark as a standard and a code pattern arranged along a length direction of said detection object, and being longer than said

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detection object; and

a controller for optically scanning said detection  
object and said background panel from forth and  
automatically detecting the size of said detection object  
5 on the basis of a signal obtained by electrically  
converting reflected light.

3. An automatic analyzer comprising:

an analytical unit for analyzing components of a  
10 sample which is an analytical object using a reagent, a  
reagent container for storing said reagent;

a sampler unit for holding said sample and executing  
a pouring operation so as to transfer said sample of a  
volume necessary to analysis to said analytical unit; a  
15 controller for controlling said analytical unit and said  
sampler unit; and

a power unit for supplying power necessary for  
operations of said controller, said analytical unit, and  
said sampler to said respective units,

20 wherein an optical information reader for reading  
contents of a code pattern label attached to a container  
for storing said sample for an object of discrimination

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is installed, and a background panel having a mark as a standard is installed behind said container, and means for optically scanning said background panel and said code pattern by said optical information reader,

5 measuring a height of said container with said code pattern attached on the basis of a signal obtained by electrically converting reflected light, and transmitting a result indicating said measured height of said container and discrimination information of said code

10 pattern to said controller is provided.

4. An automatic analyzer comprising:

an analytical unit for analyzing components of a sample which is an analytical object using a reagent;

15 a reagent container for storing said reagent, a sampler unit for holding said sample and executing a pouring operation so as to transfer said sample of a volume necessary to analysis to said analytical unit, a controller composed of an electron circuit including an

20 MPU, a memory, an I/O unit, and a sequencer for processing information and a storage unit for controlling said analytical unit and said sampler unit, and a power

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unit for supplying power necessary for operations of said controller, said analytical unit, and said sampler to said respective units;

wherein an optical information reader for reading  
5 contents of a code pattern label attached to a container for storing said sample for an object of discrimination is installed, and a background panel having a mark as a standard is installed behind said container, and means for optically scanning said background panel and said  
10 code pattern by said optical information reader, measuring a height of said container with said code pattern attached on the basis of a signal obtained by electrically converting reflected light, and transmitting a result indicating said measured height of said  
15 container and discrimination information of said code pattern to said controller is provided.

5. An apparatus for automatically detecting a size of a detection object according to Claim 2, wherein said  
20 background panel includes an auxiliary symbol in a neighborhood of said mark as a standard.

6. An automatic analyzer according to Claim 3, wherein said background panel includes an auxiliary symbol in a neighborhood of said mark as a standard.

5        7. An automatic analyzer according to Claim 4, wherein said background panel includes an auxiliary symbol in a neighborhood of said mark as a standard.

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